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PCR of CO28 → 4610pos → Stop

## Purification

Synthetic - 304 nm

**CD28/Stop Primer:** 5'-cgt cgg tta gcy aap dts tcg agt tgc tgc c-3'  
 {*Xba*I & *Sma*I} *Bam*H I *Nhe*I }

for the Cleavage and Deprotection Kit instructions.

③) 1:200 Dilution (2+4µl mix)

	Read avg time: 0.50	Read Mode: [Abs]
Sample	Wavelength	Reading
CD28 440 1:200	260.0nm	-0.3000 A
CD28 510P 1:200	260.0nm	0.1749 A → 34.98 ⇒ 0..
	260.0nm	0.1326 A → 36.52 ⇒ 0..
	260.0nm	0.4

total Amount:

gute Ausbeute !!! { CD28/440: 20nm ✓  
CD28/510P: 20nm ✓

PCR: in 50µl (mix: water)

5µl Taq buffer 10x

1µl CD28 in 0.1µl suspn: (3.5µg/µl)

4µl dNTP: (402.5 µM from CT) ⇒ 20µM

✓ 20 < 30 µl 160

4µl MgCl<sub>2</sub> [25µM] ⇒ 2µM

a little bit ! ! ! 7µl 0.094 0.15µM  
to less 10µl 148µM ⇒ 0.2µM

CD28<sub>510P</sub> [0.1µM] ⇒ 1:100 : 1µM ⇒ 0.2µM.

0.5µl Taq [5U/µl].

Cycle time 1st: 10' 95°C

1' 55°C

1' 55°C

3' 72°C extension

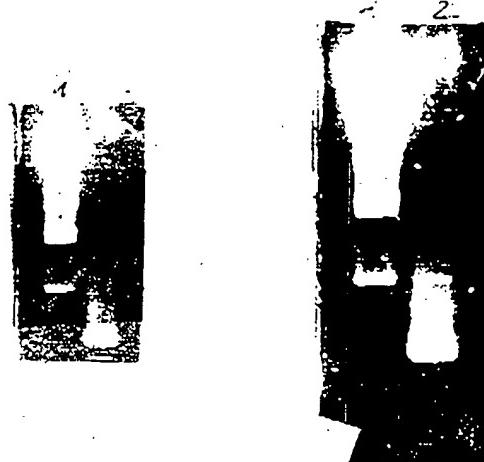
→ 40 cycles

} 4 cycles

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1.5% Gel:

- 2) Sph I PCR → 0.73 kb  
1) CNE X Rst I (2 μg)



→ 320 bp

→ Phandaten / Falter

in 35μl 100μl  
+ 35μl NaCl

20°C

→ 30'

→ 1 → w in 70% GLOTT

• 25μl H<sub>2</sub>O Klop → 2μl on 1.5% Gel  
6μl Xba I (3μg)

Next I digest over night : in 35μl

20 μg DNA → 3 μl Star Pcr T-Vector - Ligation !

3 μl H<sub>2</sub>O

3 μl NEB 3

3 μl 10 × TAE

1 μl Nde I

1724

→ 20 μl BNI - Digest O.N.

30 μl Nde - Digest

✓ 15 μl H<sub>2</sub>O

✓ 10 μl KSA 10×

3 μl NEB 3

2 μl BTA

→ 21.2.96

NEW Oligo Synthesis:

CD28 441:

CD28/441 Primer: 5'-ataaggat gcg gcc gca att gaa gtt atg tat cct cct cc-3'  
 $[=1\mu M/ml]$  Not 1

401.5

Tm=66°C

## UltraFast Cleavage and Deprotection Kit Instructions



Remove the synthesis column from the Oligo 1000 after completion of the synthesis. You should wear gloves to protect both you and the DNA.



Use a pipetor to measure 0.5 to 1 ml of AMA reagent into one of the supplied vials. 0.5 ml is sufficient for 30 nmole and 200 nmole synthesis. 1000 nmole synthesis requires 1 ml. Important Note: The vials supplied with this kit contain a special fluorocarbon O-ring. Common O-ring materials such as EPDM, Viton, silicone, etc. are not acceptable and will leach material into the AMA reagent.



Attach the supplied syringe to the top of the synthesis column. Twist slightly to assure a tight fit.

V



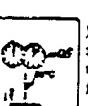
Attach the vial containing the AMA reagent to the synthesis column. Tighten firmly.

V



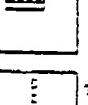
Invert the vial/column/syringe assembly so that the syringe is at the bottom and pump the syringe several times to make sure all air is displaced from the column.

V



Prop the vial/column/syringe assembly so that AMA reagent remains within the column. Let sit at room temperature for 5 minutes.

V



Position the vial/column/syringe assembly so that the vial is at the bottom. Pump the syringe several times to push all the AMA reagent into the vial.

Remove the vial.  
Cap the vial tightly.



Place the vial in a heat block. A variety of heat/time regimes are acceptable. The following is a guide. (This is based on a heat block containing water at the listed temperatures. If no water is present then add 5 minutes to the listed times to allow for the slower temperature equilibration in air.)

65°C 3 minutes  
55°C 10 minutes  
37°C 30 minutes  
25°C 90 minutes

} forgotten !!

To prevent sample blowout, cool the vial to room temperature or less before opening. (A brief exposure to ice water is sufficient.)

Dry the sample to remove the AMA reagent before using. Drying by SpeedVac, lyophilization, or with a stream of gas are all acceptable. Do not dry by heating alone.

→ aliquoted in 5 tubes → 15°

OD: 1:200 dilution (use 4000 µl):

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CD28440 PCR - fragment (NdeI/BstEII digested)

→ elutriate out of the gel for cloning:

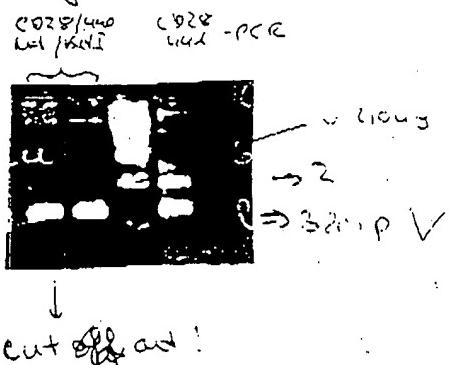
1.2% CM-Gel

2X 50 μg CD28440 (NdeI/BstEII)

but few hrs (3 hrs)

Sup. PCR-CD28440 V ~200μg

Sup. negative control w/o template V

⇒ scTru-SFG (NdeI/BstEII) → precipitated gel from 16246 ( $\approx 8\%$ )↓  
Centrifuge 17/2/96melting in 65°C  
Cut out

Spin column